# ModularNode MK3

## Description

This waterproof node has a built-in 4000mAh LiPo battery, which can optionally be charged via an integrated or external solar module.

The modular design makes it easy to add different sensors using waterproof connectors. Up to 3 external sensors can be connected directly. If more sensors are required, the sensor connections can be expanded using a distribution cable.

Furthermore, the node can be internally supplied with new interfaces by 2 plug-in modules. An external antenna can be connected for areas with poor radio coverage.

Configuration is done with our WASN Configurator software for Microsoft Windows or Android.

## Specifications

- Timer and interrupt triggered measurement
- Integrated 4000mAh LiPo battery
- Solar charge option
- IP67 rated casing
- Complete modular design

## Technical details

- based on an ASR650x MCU
- DeepSleep current of 16uA
- 3 external sensor interfaces with IIC and OneWire
- 2 internal plugin ports for various expansions:
  - Serial interface
  - RS485
  - Digital I/O
  - Analog inputs
  - ATECC608 crypto chip
  - …

## Supported Sensors:

- Temperature, Humidity
- Air pressure
- Soil moisture
- Leaf wetness
- UV and light intensity
- Wind speed and direction
- Vibration
- Magnetic field
- Different gases like $CO_2$
- …

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